

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 7,067,414 B1
APPLICATION NO. : 09/536037
DATED : June 27, 2006
INVENTOR(S) : Weimin Li, Zhiping Yin and William Budge

Page 1 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Title page, References Cited, U.S. PATENT DOCUMENTS, please insert
-- 4,444,617 4/1984 Whitcomb -- before "4,474,975"

Title page, References Cited, U.S. PATENT DOCUMENTS, please insert
-- 4,552,783 11/1985 Stoll et al.
4,562,091 12/1985 Sachdev et al. -- before "4,592,129"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 4,755,478 7/1988 Abernath et al.
4,764,247 8/1988 Leveriza et al. -- before "4,805,683"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 4,833,096 5/1989 Huang et al. -- before "4,863,755"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 4,870,470 9/1989 Bass et al.
4,910,160 3/1990 Jennings et al. -- before "4,954,867"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 4,992,306 2/1991 Hochberg et al. -- before "5,034,348"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 5,140,390 8/1992 Li et al. -- before "5,219,613"

Page 2, U.S. PATENT DOCUMENTS, please insert
-- 5,244,537 9/1993 Ohnstein
5,260,600 11/1993 Harada -- before "5,270,267"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,286,661 A 2/1994 deFresart et al. -- before "5,302,366"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,312,768 A 5/1994 Gonzalez -- before "5,314,724"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,405,489 A 4/1995 Kim et al.
5,413,963 A 5/1995 Yen et al.
5,429,987 A 4/1995 Allen
5,439,838 A 8/1995 Yang -- before "5,441,797"

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Page 2 of 8

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,461,003 A 10/1995 Havemann et al.
5,470,772 A 11/1995 Woo et al. -- before "5,472,827"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,482,894 A 1/1996 Havemann -- before "5,498,555"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,543,654 A 8/1996 Dennen
5,554,567 A 9/1996 Wang -- before "5,591,494"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,652,187 A 7/1997 Kim et al.
5,656,330 A 8/1997 Niiyama et al.
5,656,337 A 8/1997 Park et al. -- before "5,661,093"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,670,297 A 9/1997 Ogawa et al. -- before "5,671,297"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,677,015 A 10/1997 Hasegawa -- before "5,677,111"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,691,212 A 11/1997 Tsai et al. -- before "5,698,352"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,744,399 A 4/1998 Rostoker et al. -- before "5,747,388"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,750,442 A 5/1998 Juengling -- before "5,753,320"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,783,493 A 7/1998 Yeh et al.
5,786,039 A 7/1998 Brouquet
5,792,689 A 8/1998 Yang et al.
5,800,877 A 9/1998 Maeda et al. -- before "5,801,399"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert

-- 5,807,660 A 9/1998 Lin et al. -- before "5,817,549"

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,872,035 A 2/1999 Kim et al. -- before "5,872,385"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,883,014 A 3/1999 Chen et al.
5,933,721 A 8/1999 Hause et al.
5,948,482 A 9/1999 Brinker et al. -- before "5,960,289"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,981,368 A 11/1999 Gardner et al. -- before "5,985,519"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 5,986,318 A 11/1999 Kim et al. -- before "5,994,217"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 6,004,850 A 12/1999 Lucas et al.
6,008,121 A 12/1999 Yang et al. -- before "6,008,124"

Page 2, U.S. PATENT DOCUMENTS, Column 1,
Please replace "6,017,814"
With -- 6,017,614 --

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 6,017,779 A 1/2000 Miyasaka -- before "6,020,243"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 6,028,015 A 2/2000 Wang et al. -- before "6,030,901"

Page 2, U.S. PATENT DOCUMENTS, Column 1, please insert
-- 6,054,379 A 4/2000 Yau et al. -- before "6,057,217"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 6,071,799 A 6/2000 Park et al. -- before "6,072,227"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 6,087,064 A 7/2000 Lin et al.
6,087,267 A 7/2000 Dockrey et al.
6,096,656 A 8/2000 Matzke et al.
6,114,255 A 9/2000 Juengling -- before "6,121,133"

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Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,124,641 A 9/2000 Matsuura
6,130,168 A 10/2000 Chu et al.
6,133,096 A 10/2000 Su et al. -- before "6,133,613"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,136,636 A 10/2000 Wu -- before "6,140,151"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,140,677 A 10/2000 Gardner et al. -- before "6,143,670"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,156,674 A 12/2000 Li et al.
6,159,804 A 12/2000 Gardner et al. -- before "6,159,871"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,184,151 A 2/2001 Adair et al.
6,184,158 A 2/2002 Shufflebotham et al.
6,187,657 B1 2/2001 Xiang et al.
6,187,694 B1 2/2001 Cheng et al.
6,198,144 B1 3/2001 Pan et al.
6,200,835 B1 3/2001 Manning -- before "6,200,863"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,204,168 B1 3/2001 Naik et al.
6,209,484 4/2001 Huang et al. -- before "6,218,929"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,225,217 B1 5/2001 Usami et al.
6,235,568 B1 5/2001 Murthy et al.
6,235,591 5/2001 Balasubramanian et al.
6,238,976 5/2001 Noble et al.
6,268,282 B1 7/2001 Sandhu et al.
6,274,292 8/2001 Yin et al.
6,281,100 8/2001 Yin et al. -- before "6,284,677"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,440,860 8/2002 DeBoer et al. -- before "6,444,593"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert

-- 6,451,504 9/2002 Rolfson et al. -- before "6,465,372"

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Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 7,235,499 6/2007 Li et al. -- before "2001/0003064"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 2001/0038919 A1 11/2001 Berry, III et al. -- before "2002/0016085"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 2002/0033486 A1 3/2002 Kim et al.
2002/0081834 A1 6/2002 Daniels et al. -- before "2002/0098684"

Page 2, U.S. PATENT DOCUMENTS, Column 2, please insert
-- 09/146,843 9/1998 Li et al.
09/219,041 9/1998 Li et al. -- at end of U.S. PATENT DOCUMENTS listing

Page 2, Column 2, FOREIGN PATENT DOCUMENTS, please insert
-- EP 0471185 A2 7/1991 -- before "EP 0 588 087"

Page 2, Column 2, FOREIGN PATENT DOCUMENTS, please insert
-- EP 0942330 A1 9/1999
EP 1172845 A2 1/2002 -- before "GB 593727"

Page 2, Column 2, FOREIGN PATENT DOCUMENTS, please insert
-- JP 08-213386 A 8/1996
JP 9-50993 2/1997 -- before "JP 09055351"

Page 2, Column 2, FOREIGN PATENT DOCUMENTS, please insert
-- JP 10/163083 6/1998 -- before "JP 63316476"

Page 2, Column 2, FOREIGN PATENT DOCUMENTS, please insert
-- JP 20068261 A 3/2000
TW 368687 A 9/1999
TW 420844 A 2/2001
TW 429473 A 4/2001 -- before "TW 471112"

Page 2, U.S. PATENT DOCUMENTS, Column 2,
Please replace "6,218,929"
With -- 6,218,292 --

Page 2, U.S. PATENT DOCUMENTS, Column 2,
Please replace "6,632,712 B1 7/2000 Ang et al."
With -- 6,632,712 B1 10/2003 Ang et al. --

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It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Page 2, Column 2, FOREIGN PATENT DOCUMENTS,
Please replace "JP 5-263155 10/1993"
With -- JP 5-263255 10/1993 --

Page 3, OTHER PUBLICATIONS, Column 1,
Please replace "D.R. McKenzie et al., "New Technology for PACVO", Surface and
Cooling Technology, 62 (1995), pp. 326-333."
With -- D.R. McKenzie et al., "New Technology for PACVD1." Surface and Coatings
Technology, 82 (1996) pp. 326-333.--

Page 3, OTHER PUBLICATIONS, Column 1, line 17,
Please replace "Flowlife"
With -- Flowfill@ --

Page 3, OTHER PUBLICATIONS, Column 1, line 18,
Please replace "Beekman"
With -- Beckmann --

Page 3, OTHER PUBLICATIONS, Column 1, line 24,
Please replace "BISN4"
With -- Si3N4 --

Page 3, OTHER PUBLICATIONS, Column 1, line 26,
Please replace "coolings"
With -- coatings --

Page 3, OTHER PUBLICATIONS, Column 1, line 29,
Please replace "Noboru Snibate"
With -- Noboru Shibata --

Page 3, OTHER PUBLICATIONS, Column 1, line 33,
Please replace "Ralis"
With -- Ralls --

Page 3, OTHER PUBLICATIONS, Column 1, line 38,
Please replace "Pesion"
With -- Penton --

Page 3, OTHER PUBLICATIONS, Column 2, line 8,
Please replace "SPIE vol. 3149"
With -- SPIE vol. 3049 --

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Page 3, OTHER PUBLICATIONS, Column 2, line 10,
Please replace "pp. 41-49"
With -- pp. 48-49 --

Page 3, OTHER PUBLICATIONS, Column 2, line 11,
Please replace "Withmell"
With -- Withmall --

Page 3, OTHER PUBLICATIONS, Column 2, line 13,
Please replace "New photodefinable glass eich masks"
With -- New photodefinable glass etch masks --

Page 3, OTHER PUBLICATIONS, Column 2, line 22,
Please replace "to an all dry resist process for 193 and 248 am"
With -- in an all dry resist process for 193 and 248 nm --

Page 3, OTHER PUBLICATIONS, Column 2, line 32,
Please replace "Morie, Q. et al."
With -- Horie, O. et al. --

Page 3, OTHER PUBLICATIONS, please insert
-- Julius Grant, Hackh's Chemical Dictionary, Fourt Edition, McGraw-Hill Book
Company, © 1969, rented by Grant © 1972, pp. 27 --

Page 3, OTHER PUBLICATIONS, please insert
-- Wolf et al., "Silicon Processing for the VLSI Era- Vol. 1. Process Technolog,"
Prologue, page xxiii (2pages) -- before "Silicon Processing for the VLSI Era"

Page 3, OTHER PUBLICATIONS, please insert
-- Wolf S., and Tauber, Richard, Silicon Processing for the VLSI Era; Vol. 1;
Process Technology; "Silicon: Single Crystal Growth and Wafer
Preparation"; pages 1 and 2. -- before "Wolf S. Silicon Process., V.1 407-413"

Column 1, line 55,
Please replace "methysilane"
With -- methysilanol --

Column 5, line 48,
Please replace "spacig"
With -- spacing --

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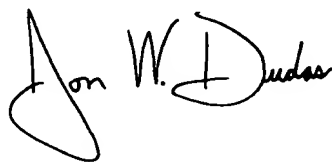
It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 5, line 49,
Please replace "oxygen gas expsure"
With -- oxygen gas exposure --

Column 6, line 20,
Please replace " $\text{Si}_3\text{N}_{(4-x)}$ "
With -- $\text{Si}_3\text{N}_{(4-x)}$ --

Signed and Sealed this

Ninth Day of September, 2008

A handwritten signature in black ink, reading "Jon W. Dudas". The signature is stylized, with a large loop for the "J" and a cursive "Dudas".

JON W. DUDAS
Director of the United States Patent and Trademark Office